COMPARATIVE ANALYSIS

25X1

1540 LIGHT TABLES

DECLASS REVIEW by NGA

1540 LIGHT TABLES

1540 Feb. 69 (NPIC)

May 69 In-House

1540 Competitive Contracts
Oct. 69
Nov. 69

Delivery Mar 70

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- 1. Easy Film Loading
- 2. Improved Illumination
- 3. Improved Microstereoscope Mount
- 4. Improved Film Drive
- 5. Human Engineered

MET MOST OF THEM

TABLES NEED FURTHER IMPROVEMENT

ADVANTAGES

Superior Film Drive*

Quiet

Cooler*

Light Source Dry

Lower Cost*

DISADVANTAGES

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ADVANTAGES

Superior microstereoscope mount & controls *
Operational displays
Split light source
Tilt system *
Known company work history

DISADVANTAGES

Local maintenance

Heat *
Film tracking *
Noisy
Film transport *
Microstereoscope Y-drive in Tilt
Air bubbles
Minor irritations
Green oil/Liquid lamp *
Higher cost *

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APPROACH TO PROBLEM

- 1. Meetings with Contractors
 (IEG, ESD & RED)
- 2. Discussion and Critique of Problems
- 3. Response to Critique/Letter of Intent
 - A. Problem
 - B. Solution Rationale
 - C. Cost Impact
 - D. Delivery Impact

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Problems	Solution	Confidence
Scope mount	Redesign to modified mount. Spec. for Mod. 28	Good but first attempt may surface "bugs". Should respond to good engineering
Counterbalance	Redesign to "positive" drive. Approach not well defined	Fair will improve, but question as to how much
Bridge Y-drive	Redesign to "positive" drive. Approach not well defined.	Fair to good Should improve but question is how much.
Location of Controls	Will relocate	Good. No problem.
TIME - Receive prototype 4 May. Will demonstrate changes on prototype as designs are completed. All changes by 30 June.		
COST -	No cost in prototype No change in quoted production	n costs

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Problems	Solution	Confidence
70 mm film tracking	Harder rollers	Will provide demonstration rollers, 2 weeks Fair
	Replace pump thermostat	If stated solution is correct, confidence is good.
Air hubbles "	Seal with solder rather than elastomer	Fair recurring problem with
Green Oil	Periodic replacement probably necessary	Poor No good solution in sight
Noisy elevation	Slower speed, quieter motors	Some improvement probable
Film transport hunting and creeping		Questionable problem not in evidence at preacceptance. **
Chatter in mount drive	Replace control with snap- action switches	Could be successful but could surface problem like "feel"
Slower low-speed film transport	Changing component values	Good not difficult
	Wants feedback from ESD to identify	Noise fair Vibration poor
TIME - Re	ceive Prototype 4 May Prototype 12 May	obably 1 week late
COST - No	cost in prototype change in quoted production co	sts
	•	** has low confidence STAT

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PROBLEM CORRECTION DATES

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PROTOTYPE MODIFIED 12 MAY 30 JUNE

FIRST PRODUCTION 1 SEP 1 SEP
UNIT

ALTERNATIVES:

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1.	Order	STAT
2.	Order	STAT
3.	Combined Order	

COMBINED ORDER

ADVANTAGES

- 1. Faster Delivery
- 2. Mate Table to Task
- 3. Maintain Competition

DISADVANTAGES

- 1. Increased Cost
- 2. Maintenance Problems (minor)

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Lead Time	15 wks.	16 wks.
. Production Data 5th Unit 10th Unit	20 wks.	20 wks.
	40/mo.	7/wk.
Quantities by 1 January 1971 (Contract 1 June 1970) 1 April 1971	90	70
	210	160 STAT
COSTS (200 units)		
Fully motorized		
Basic table		